



Valve Regulated Lead Acid (VRLA) battery with Gel electrolyte technology

Solar Battery Sub System

A range of 65 Ah to 250 Ah 12/24V, valve regulated lead acid (VRLA) battery with gel electrolyte technology to get long service lifetime and high performance in deep discharging. It can be used in wide range of ambient temperature and keep good performance of constant power input

Benefits

- Gel electrolyte, 12 years lifespan in float service application.
- Excellent capacity restoration, 95% capacity recovery after short circuit in 24 hours.
- Low self-discharge rate, less than 3% per month
- Wide application temperature range, -20C~55C
- High charge efficiency, good small current charge absorption ability
- Water-proof, patented design, that enable underground battery installation
- Ventilation pipe, release the gas from battery to the air for safe CE certified operation

Features

- IP 68 Patented Design for installing underground
- IP 67 Poka Yoke connectors with tactile audible feedback
- Temperature sensor for efficient compensation implementation in Charge controller.

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Application

- Solar Street lighting
- Solar Flood Lighting

Versions



Lithium Ferro Phosphate battery



Lithium Ferro Phosphate battery



Lithium Ferro Phosphate battery



Lithium Ferro Phosphate battery



Lithium Ferro Phosphate battery



Lithium Ferro Phosphate battery



Lithium Ferro Phosphate battery



Lithium Ferro Phosphate battery



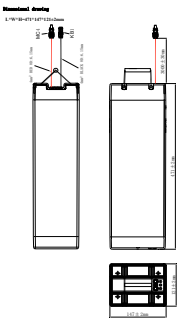
Lithium Ferro Phosphate battery



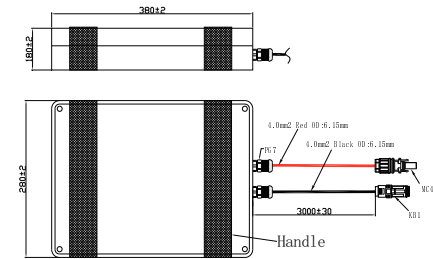
IP 68 LMLA Gel battery

Solar Battery Sub System

Dimensional drawing



Dimensional drawing
L*W*H=380*280*180mm±2mm



12V Gel Battery Subsystem

Description	Battery Size (cm) LxWxH
911401823202 ZJS601 80AH 12V/105AH IP68 gel battery subunit	35x16.5x23.5
911401823203 ZJS601 120AH 12V/105AH IP68 gel battery subunit	42.5x17.5x23.5
911401823204 ZJS601 150AH 12V/105AH IP68 gel battery subunit	52.5x17.5x23.5
911401823205 ZJS601 200AH 12V/105AH IP68 gel battery subunit	60x17.5x23.5
911401823206 ZJS601 250AH 12V/105AH IP68 gel battery subunit	67.5x17.5x23.5
911401823207 ZJS601 300AH 12V/105AH IP68 gel battery subunit	75x17.5x23.5
911401823208 ZJS601 350AH 12V/105AH IP68 gel battery subunit	82.5x17.5x23.5
911401823209 ZJS601 400AH 12V/105AH IP68 gel battery subunit	90x17.5x23.5
911401823210 ZJS601 450AH 12V/105AH IP68 gel battery subunit	97.5x17.5x23.5
911401823211 ZJS601 500AH 12V/105AH IP68 gel battery subunit	105x17.5x23.5

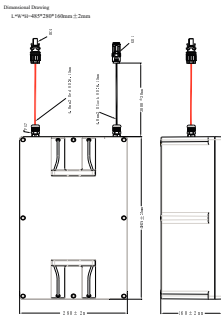
24V Gel Battery Subsystem

Description	Battery Size (cm) LxWxH
911401823212 ZJS601 80AH 24V/210AH IP68 gel battery subunit	35x16.5x23.5
911401823213 ZJS601 120AH 24V/210AH IP68 gel battery subunit	42.5x17.5x23.5
911401823214 ZJS601 150AH 24V/210AH IP68 gel battery subunit	52.5x17.5x23.5
911401823215 ZJS601 200AH 24V/210AH IP68 gel battery subunit	60x17.5x23.5
911401823216 ZJS601 250AH 24V/210AH IP68 gel battery subunit	67.5x17.5x23.5
911401823217 ZJS601 300AH 24V/210AH IP68 gel battery subunit	75x17.5x23.5
911401823218 ZJS601 350AH 24V/210AH IP68 gel battery subunit	82.5x17.5x23.5
911401823219 ZJS601 400AH 24V/210AH IP68 gel battery subunit	90x17.5x23.5
911401823220 ZJS601 450AH 24V/210AH IP68 gel battery subunit	97.5x17.5x23.5
911401823221 ZJS601 500AH 24V/210AH IP68 gel battery subunit	105x17.5x23.5

Operating and Electrical	
Cable connection kit	Included
Approval and Application	
Ingress protection code	IP68

Operating and Electrical

Full Product		Battery charging & discharging		Battery	
Order Code	Name	Battery ampere hour	cycles	Battery type	voltage
911401823202	ZJS601 80AH 12.8V Battery	80 Ah	2000	Lithium Ferro Phosphate	12.8 V



12V Gel Battery Subsystem

Description	Battery Size (cm) LxWxH
911401823202 ZJS601 80AH 12V/105AH IP68 gel battery subunit	35x16.5x23.5
911401823203 ZJS601 120AH 12V/105AH IP68 gel battery subunit	42.5x17.5x23.5
911401823204 ZJS601 150AH 12V/105AH IP68 gel battery subunit	52.5x17.5x23.5
911401823205 ZJS601 200AH 12V/105AH IP68 gel battery subunit	60x17.5x23.5
911401823206 ZJS601 250AH 12V/105AH IP68 gel battery subunit	67.5x17.5x23.5
911401823207 ZJS601 300AH 12V/105AH IP68 gel battery subunit	75x17.5x23.5
911401823208 ZJS601 350AH 12V/105AH IP68 gel battery subunit	82.5x17.5x23.5
911401823209 ZJS601 400AH 12V/105AH IP68 gel battery subunit	90x17.5x23.5
911401823210 ZJS601 450AH 12V/105AH IP68 gel battery subunit	97.5x17.5x23.5
911401823211 ZJS601 500AH 12V/105AH IP68 gel battery subunit	105x17.5x23.5

24V Gel Battery Subsystem

Description	Battery Size (cm) LxWxH
911401823212 ZJS601 80AH 24V/210AH IP68 gel battery subunit	35x16.5x23.5
911401823213 ZJS601 120AH 24V/210AH IP68 gel battery subunit	42.5x17.5x23.5
911401823214 ZJS601 150AH 24V/210AH IP68 gel battery subunit	52.5x17.5x23.5
911401823215 ZJS601 200AH 24V/210AH IP68 gel battery subunit	60x17.5x23.5
911401823216 ZJS601 250AH 24V/210AH IP68 gel battery subunit	67.5x17.5x23.5
911401823217 ZJS601 300AH 24V/210AH IP68 gel battery subunit	75x17.5x23.5
911401823218 ZJS601 350AH 24V/210AH IP68 gel battery subunit	82.5x17.5x23.5
911401823219 ZJS601 400AH 24V/210AH IP68 gel battery subunit	90x17.5x23.5
911401823220 ZJS601 450AH 24V/210AH IP68 gel battery subunit	97.5x17.5x23.5
911401823221 ZJS601 500AH 24V/210AH IP68 gel battery subunit	105x17.5x23.5

Full Product		Battery charging & discharging		Battery	
Order Code	Name	Battery ampere hour	cycles	Battery type	voltage
911401823202	ZJS601 120AH 25.6V Battery	120 Ah	2000	Lithium Ferro Phosphate	25.6 V

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Order Code	Full Product Name	Battery ampere hour	Battery charging & discharging cycles	Battery type	Battery voltage
911401823402	ZJS601 120AH 12.8V Battery	120 Ah	2000	Lithium Ferro Phosphate	12.8 V
911401823002	ZJS601 50AH 12.8V Battery	50 Ah	2000	Lithium Ferro Phosphate	12.8 V
911401822402	ZJS601 100AH 25.6V Battery	100 Ah	2000	Lithium Ferro Phosphate	25.6 V
911401823102	ZJS601 70AH 12.8V Battery	70 Ah	2000	Lithium Ferro Phosphate	12.8 V
911401823302	ZJS601 100AH 12.8V Battery	100 Ah	2000	Lithium Ferro Phosphate	12.8 V
911401823602	ZJS601 90AH 25.6V Battery	90 Ah	2000	Lithium Ferro Phosphate	25.6 V
911401823502	ZJS601 70AH 25.6V Battery	70 Ah	2000	Lithium Ferro Phosphate	25.6 V
911401817302	XGS321 12V/ 150AH IP68 Gel Bat sys 5yrs	150 Ah	750	Gel	12 V
911401817402	XGS321 12V/ 180AH IP68 Gel Bat sys 5yrs	180 Ah	750	Gel	12 V
911401818202	XGS322 12V/ 150AH IP68 Gel Bat 5yrs For24	150 Ah	750	Gel	24 V
911401818802	XGS321 12V/ 80AH IP68 Gel Bat sys 3yrs	80 Ah	750	Gel	12 V

Temperature

Order Code	Full Product Name	Ambient temperature range
911401823202	ZJS601 80AH 12.8V Battery	0 to +60 °C
911401823702	ZJS601 120AH 25.6V Battery	0 to +60 °C
911401823402	ZJS601 120AH 12.8V Battery	0 to +60 °C
911401823002	ZJS601 50AH 12.8V Battery	0 to +60 °C
911401822402	ZJS601 100AH 25.6V Battery	0 to +60 °C
911401823102	ZJS601 70AH 12.8V Battery	0 to +60 °C
911401823302	ZJS601 100AH 12.8V Battery	0 to +60 °C
911401823602	ZJS601 90AH 25.6V Battery	0 to +60 °C
911401823502	ZJS601 70AH 25.6V Battery	0 to +60 °C
911401817302	XGS321 12V/150AH IP68 Gel Bat sys 5yrs	-20 to +55 °C
911401817402	XGS321 12V/180AH IP68 Gel Bat sys 5yrs	-20 to +55 °C
911401818202	XGS322 12V/150AH IP68 Gel Bat 5yrs For24	-20 to +55 °C

Mechanical and Housing

Order Code	Full Product Name	Battery ampere hour	Battery charging & discharging cycles	Battery type	Battery voltage
911401818902	XGS321 12V/ 100AH IP68 Gel Bat sys 3yrs	100 Ah	750	Gel	12 V
911401819002	XGS321 12V/ 120AH IP68 Gel Bat sys 3yrs	120 Ah	750	Gel	12 V
911401819202	XGS321 12V/ 180AH IP68 Gel Bat sys 3yrs	180 Ah	750	Gel	12 V
911401819502	XGS321 12V/ 250AH IP68 Gel Bat sys 3yrs	250 Ah	750	Gel	12 V
911401819602	XGS322 12V/ 65AH IP68 Gel Bat 3yrs For24	65 Ah	750	Gel	24 V
911401820002	XGS322 12V/ 150AH IP68 Gel Bat 3yrs For24	150 Ah	750	Gel	24 V
911401820402	XGS322 12V/ 250AH IP68 Gel Bat 3yrs For24	250 Ah	750	Gel	24 V

Order Code	Full Product Name	Ambient temperature range
911401818802	XGS321 12V/80AH IP68 Gel Bat sys 3yrs	-20 to +55 °C
911401818902	XGS321 12V/100AH IP68 Gel Bat sys 3yrs	-20 to +55 °C
911401819002	XGS321 12V/120AH IP68 Gel Bat sys 3yrs	-20 to +55 °C
911401819202	XGS321 12V/180AH IP68 Gel Bat sys 3yrs	-20 to +55 °C
911401819502	XGS321 12V/250AH IP68 Gel Bat sys 3yrs	-20 to +55 °C
911401819602	XGS322 12V/65AH IP68 Gel Bat 3yrs For24	-20 to +55 °C
911401820002	XGS322 12V/150AH IP68 Gel Bat 3yrs For24	-20 to +55 °C
911401820402	XGS322 12V/250AH IP68 Gel Bat 3yrs For24	-20 to +55 °C

Solar Battery Sub System

Order Code	Full Product Name	Overall height	Overall length	Overall width
911401823202	ZJS601 80AH 12.8V Battery	471 mm	147 mm	121 mm
911401823702	ZJS601 120AH 25.6V Battery	160 mm	280 mm	485 mm
911401823402	ZJS601 120AH 12.8V Battery	180 mm	280 mm	380 mm
911401823002	ZJS601 50AH 12.8V Battery	471 mm	147 mm	121 mm
911401822402	ZJS601 100AH 25.6V Battery	160 mm	280 mm	485 mm
911401823102	ZJS601 70AH 12.8V Battery	471 mm	147 mm	121 mm
911401823302	ZJS601 100AH 12.8V Battery	471 mm	147 mm	121 mm
911401823602	ZJS601 90AH 25.6V Battery	160 mm	280 mm	485 mm
911401823502	ZJS601 70AH 25.6V Battery	180 mm	280 mm	380 mm
911401817302	XGS321 12V/150AH IP68 Gel Bat sys 5yrs	300 mm	480 mm	170 mm
911401817402	XGS321 12V/180AH IP68 Gel Bat sys 5yrs	218 mm	522 mm	238 mm

Order Code	Full Product Name	Overall height	Overall length	Overall width
911401818202	XGS322 12V/150AH IP68 Gel Bat 5yrs For24	300 mm	480 mm	340 mm
911401818802	XGS321 12V/80AH IP68 Gel Bat sys 3yrs	273 mm	329 mm	172 mm
911401818902	XGS321 12V/100AH IP68 Gel Bat sys 3yrs	273 mm	329 mm	172 mm
911401819002	XGS321 12V/120AH IP68 Gel Bat sys 3yrs	266 mm	406 mm	174 mm
911401819202	XGS321 12V/180AH IP68 Gel Bat sys 3yrs	218 mm	522 mm	238 mm
911401819502	XGS321 12V/250AH IP68 Gel Bat sys 3yrs	220 mm	520 mm	269 mm
911401819602	XGS322 12V/65AH IP68 Gel Bat 3yrs For24	235 mm	350 mm	332 mm
911401820002	XGS322 12V/150AH IP68 Gel Bat 3yrs For24	300 mm	480 mm	340 mm
911401820402	XGS322 12V/250AH IP68 Gel Bat 3yrs For24	220 mm	520 mm	538 mm

Application Conditions

Order Code	Full Product Name	Ambient temperature range for charging	Ambient temperature range for discharging (when light is on)
911401823202	ZJS601 80AH 12.8V Battery	0 °C to +60 °C	-20 °C to +60 °C
911401823702	ZJS601 120AH 25.6V Battery	0 °C to +60 °C	-20 °C to +60 °C
911401823402	ZJS601 120AH 12.8V Battery	0 °C to +60 °C	-20 °C to +60 °C
911401823002	ZJS601 50AH 12.8V Battery	0 °C to +60 °C	-20 °C to +60 °C
911401822402	ZJS601 100AH 25.6V Battery	0 °C to +60 °C	-20 °C to +60 °C
911401823102	ZJS601 70AH 12.8V Battery	0 °C to +60 °C	-20 °C to +60 °C
911401823302	ZJS601 100AH 12.8V Battery	0 °C to +60 °C	-20 °C to +60 °C
911401823602	ZJS601 90AH 25.6V Battery	0 °C to +60 °C	-20 °C to +60 °C
911401823502	ZJS601 70AH 25.6V Battery	0 °C to +60 °C	-20 °C to +60 °C
911401817302	XGS321 12V/150AH IP68 Gel Bat sys 5yrs	-20 °C to +55 °C	-20 °C to +55 °C
911401817402	XGS321 12V/180AH IP68 Gel Bat sys 5yrs	-20 °C to +55 °C	-20 °C to +55 °C

Order Code	Full Product Name	Ambient temperature range for charging	Ambient temperature range for discharging (when light is on)
911401818202	XGS322 12V/150AH IP68 Gel Bat 5yrs For24	-20 °C to +55 °C	-20 °C to +55 °C
911401818802	XGS321 12V/80AH IP68 Gel Bat sys 3yrs	-20 °C to +55 °C	-20 °C to +55 °C
911401818902	XGS321 12V/100AH IP68 Gel Bat sys 3yrs	-20 °C to +55 °C	-20 °C to +55 °C
911401819002	XGS321 12V/120AH IP68 Gel Bat sys 3yrs	-20 °C to +55 °C	-20 °C to +55 °C
911401819202	XGS321 12V/180AH IP68 Gel Bat sys 3yrs	-20 °C to +55 °C	-20 °C to +55 °C
911401819502	XGS321 12V/250AH IP68 Gel Bat sys 3yrs	-20 °C to +55 °C	-20 °C to +55 °C
911401819602	XGS322 12V/65AH IP68 Gel Bat 3yrs For24	-20 °C to +55 °C	-20 °C to +55 °C
911401820002	XGS322 12V/150AH IP68 Gel Bat 3yrs For24	-20 °C to +55 °C	-20 °C to +55 °C
911401820402	XGS322 12V/250AH IP68 Gel Bat 3yrs For24	-20 °C to +55 °C	-20 °C to +55 °C

Solar Battery Sub System

